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TITLE: Skin protective formulation e.g. ointment, cream and emulsion for promoting scar restoration, comprises metallothionein, epidermal growth factor, additional skin protective active agent and carrier

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## PATENT-FAMILY:

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ABSTRACTED-PUB-NO: CN 101073539 A

## BASIC-ABSTRACT:

NOVELTY - Skin protective formulation comprises metallothionein (50-200 parts per minute), epidermal growth factor (50000-600000 IU/30 ml), additional skin protective active agent and carrier.

USE - The skin protective formulation such as cream, ointment, facial membrane and emulsion is useful for promoting scar restoration (all claimed), for healing the scar of skin, reducing the scar and pigmentation of the scar.

ADVANTAGE - The compound rapidly heals the scar and improves the skin quality.

ABSTRACTED-PUB-NO: CN 101073539 A  
EQUIVALENT-ABSTRACTS:

# ORGANIC CHEMISTRY

**Preferred Components:** The metallothionein is zinc-binding metallothionein extracted from rabbit liver, the epidermal growth factor is recombinant human epidermal growth factor. The dosage of metallothionein is 80-160 ppm, preferably 100-140 ppm, and the dosage of the epidermal growth factor is 100000-600000 IU/30 ml, preferably 200000-500000 IU/30 ml. The additional skin protective active agents are chosen from water-soluble vitamin E, hyaluronic acid powder, sodium heparin, apricot kernel oil and propolis. The carrier is acrylic acid ester/10-30C alkyl acrylic acid ester crosslinking copolymer, pyrrolidone sodium carboxylic acid, squalane and 1,3-butanediol.

The skin protective compound when formulated as cream, comprises (in ml) aqua (30) with freeze dry meal (20). The aqua includes (in weight%) acrylic acid ester/10-30C alkyl acrylic acid ester/10-30C alkyl acrylic acid ester crosslinking copolymer (0.2-0.5), 1,3-butanediol (4-6), glycerin (1-3), pyrrolidone sodium carboxylic acid (0.5-2), vitamin E (0.3-0.7), hyaluronic acid (0.2-0.6), propolis (0.2-0.5), sodium heparin (0.3-0.5), dimethylol hydantoin and 3-iodine-2-propinyl amido butyl formate (0.1-0.3), metallothionein (2-7 ml/20 ml), epidermal growth factor (100000-500000 IU/20 ml), and mannitol (18 ml/20 ml). The skin protective compound when formulated as facial membrane, comprises (in weight%) acrylic acid ester/10-30C alkyl acrylic acid ester/10-30C alkyl acrylic acid ester crosslinking copolymer (0.2-0.5), 1,3-butanediol (4-6), glycerin (1-3), pyrrolidone sodium carboxylic acid (0.5-2), silk peptide powder (0.1-0.3), vitamin E (0.4-0.8), hyaluronic acid (0.2-0.6), dimethylol hydantoin and 3-iodine-2-propinyl amido butyl formate (0.1-0.3), metallothionein (60-160 parts per minute) and epidermal growth factor (150000-500000 IU/20 ml). The skin protective compound when formulated as ointment, comprises (in weight%) 1,3-butanediol (4-6), glycerin (1-3),

hexadecanol (3-5), octodecyl alcohol (1-3), squalane (3-5), stearin tristearin (0.5-2), apricot kernel oil (1-3), vitamin E (0.2-0.5), hyaluronic acid (0.4-0.6), dimethylol hydantoin and 3-iodine-2-propinyl amido butyl formate (0.1-0.3), metallothionein (60-140 parts per minute) and epidermal growth factor (100000-500000 IU/20 ml). The skin protective compound when formulated as emulsion, comprises (in weight%) 1,3-butanediol (2-5), hexadecanol (3-5), octodecyl alcohol (0.5-3), squalane (1-4), stearin tristearin (0.5-2), apricot kernel oil (1-3), vitamin E (0.2-0.5), hyaluronic acid (0.4-0.6), collagen (0.1-0.4), silk peptide powder (0.1-0.3), dimethylol hydantoin and 3-iodine-2-propinyl amido butyl formate (0.1-0.3), metallothionein (60-170 parts per minute) and epidermal growth factor (100000-500000 IU/20 ml).

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